

SEQUENCE LISTING

<110> Otvos Jr., Laszlo
 <120> Novel Pyrrhocoricin-Derived Peptides, and Methods of Use Thereof
 <130> WST91BUSA
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 <141>
 <150> 60/140,606
 <151> 1999-06-23
 <150> 60/154,135
 <151> 1999-09-15
 <160> 30
 <170> PatentIn Ver. 2.1
 <210> 1
 <211> 18
 <212> PRT
 <213> Artificial Sequence
 <220>
 <221> MOD_RES
 <222> (1)
 <223> Asp in position 1 is attached to one or more modified amino acids or to a chemical group
 <220>
 <221> MOD_RES
 <222> (4)
 <223> Xaa can be Ser or any amino acid
 <220>
 <221> MOD_RES
 <222> (5)
 <223> Xaa can be Tyr or any amino acid
 <220>
 <221> MOD_RES
 <222> (17)
 <223> Xaa can be Asn or any amino acid
 <220>
 <221> MOD_RES
 <222> (18)
 <223> Xaa can be Arg or any amino acid and is attached to one or more modified amino acids or to a chemical group

<220>
<223> modification of Pyrrhocoricin

<400> 1
Asp Lys Gly Xaa Xaa Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile Tyr
1 5 10 15
Xaa Xaa

<210> 2
<211> 20
<212> PRT
<213> Pyrrhocoricin

<220>
<221> MOD_RES
<222> (11)
<223> Thr in position 11 is modified with Gal-GalNAc

<400> 2
Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile
1 5 10 15
Tyr Asn Arg Asn
20

<210> 3
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modification of Pyrrhocoricin

<400> 3
Arg Pro Pro Thr Pro Arg Pro Leu Lys Val
1 5 10

<210> 4
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (1)
<223> Asp in position 1 is modified by a
1-aminocyclo-hexane carboxylic acid

<220>
<221> MOD_RES
<222> (18)
<223> Arg in position 18 is modified by an amino linker
moiety

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Asn Arg

<220>
<223> modification of Pyrrhocoricin

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<210> 6
<211> 20
<212> PRT
<213> Artificial Sequence
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<220>
<223> modification of Pyrrhocoricin

Tyr Asn Arg Asn
20

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<210> 7
<211> 24
<212> PRT
<213> Artificial Sequence
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<220>
<221> MOD_RES
<222> (1)
<223> ACETYLATION
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<220>
<223> modification of Pyrrhocorin

Pro Arg Pro Ile Tyr Asn Arg Asn
20

<210> 8
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (1)
<223> ACETYLATION

<220>
<223> modification of Pyrrhocoricin

<400> 8
Arg Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro
1 5 10 15

Ile Tyr Asn Arg Asn
20

<210> 9
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (1)
<223> ACETYLATION

<220>
<223> modification of Pyrrhocoricin

<400> 9
Lys Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro
1 5 10 15

Ile Tyr Asn Arg Asn
20

<210> 10
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (1)
<223> Asp in position 1 is modified by a
1-aminocyclo-hexane carboxylic acid

<220>
<223> modification of Pyrrhocoricin

<400> 10
 Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile Tyr
 1 5 10 15

Asn Arg Asn

<210> 11
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> MOD_RES
 <222> (1)
 <223> ACETYLTATION

<220>
 <221> MOD_RES
 <222> (11)
 <223> Thr in position 11 is modified with Gal-GalNAc

<220>
 <223> modification of Pyrrhocoricin

<400> 11
 Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile
 1 5 10 15

Tyr Asn Arg Asn
 20

<210> 12
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> MOD_RES
 <222> (1)
 <223> ACETYLTATION

<220>
 <221> MOD_RES
 <222> (20)
 <223> Arg in position 20 is modified by an imide group

<220>
 <223> modification of Pyrrhocoricin

<400> 12
 Lys Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro
 1 5 10 15

Ile Tyr Asn Arg
 20

<220>
 <221> MOD_RES
 <222> (1)
 <223> ACETYLATION

<220>
 <221> MOD_RES
 <222> (21)
 <223> Asn in position 21 is modified by a
 triacetyl-2-acetamido-2-deoxyglucose group

<220>
 <223> modification of Pyrrhocoricin

<400> 15
 Lys Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro
 1 5 10 15

Ile Tyr Asn Arg Asn
 20

<210> 16
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> MOD_RES
 <222> (1)
 <223> Val in position 1 is in the D configuration

<220>
 <221> MOD_RES
 <222> (20)
 <223> Asn in position 20 is in the D configuration

<220>
 <223> modification of Pyrrhocoricin

<400> 16
 Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile
 1 5 10 15

Tyr Asn Arg Asn
 20

<210> 17
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(21)
 <223> is a cyclic peptide

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T0E02T-40808660

<220>
<223> modification of Pyrrhocoricin

<400> 17
Lys Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro
1 5 10 15

Ile Tyr Asn Arg Asp
20

<210> 18
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<221> PEPTIDE
<222> (1)..(29)
<223> is a cyclic peptide

<220>
<223> modification of Pyrrhocoricin

<400> 18
Arg Pro Pro Thr Pro Arg Pro Leu Lys Val Asp Lys Gly Ser Tyr Leu
1 5 10 15

Pro Arg Pro Thr Pro Pro Arg Pro Ile Tyr Asn Arg Asn
20 25

<210> 19
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (1)
<223> Lys in position 1 has a biotin attached

<220>
<223> modification of Pyrrhocoricin

<400> 19
Lys Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro
1 5 10 15

Ile Tyr Asn Arg Asn
20

<210> 20
<211> 21
<212> PRT
<213> Artificial Sequence

<400> 22

Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile Tyr
1 5 10 15

Asn Arg

<210> 23

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD_RES

<222> (1)

<223> ACETYLATION

<220>

<221> MOD_RES

<222> (20)

<223> Arg in position 20 is modified by a
beta-acetyl-2,3-diamino propionic acid group

<220>

<223> modification of Pyrrhocoricin

<400> 23

Arg Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro
1 5 10 15

Ile Tyr Asn Arg
20

<210> 24

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD_RES

<222> (1)

<223> Asp in position 1 is modified by a
1-aminocyclo-hexane carboxylic acid group

<220>

<221> MOD_RES

<222> (18)

<223> Arg in position 18 is modified by a
beta-acetyl-2,3-diamino propionic acid group

<220>

<223> modification of Pyrrhocoricin

<400> 24

Asp Lys Gly Ala Phe Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile Tyr
1 5 10 15

Asn Arg

<210> 25

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD_RES

<222> (19)

<223> Arg in position 19 is modified by a
beta-acetyl-2,3-diamino propionic acid group

<220>

<223> modification of Pyrrhocoricin

<400> 25

Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile
1 5 10 15

Tyr Asn Arg

<210> 26

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(20)

<223> D configuration

<220>

<223> modification of Pyrrhocoricin

<400> 26

Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile
1 5 10 15

Tyr Asn Arg Asn
20

<210> 27

<211> 26

<212> PRT

<213> Melittin

<220>
 <221> MOD_RES
 <222> (26)
 <223> AMIDATION

<400> 27
 Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala Leu
 1 5 10 15
 Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln
 20 25

<210> 28
 <211> 15
 <212> PRT
 <213> T helper cell epitope

<220>
 <221> MOD_RES
 <222> (15)
 <223> AMIDATION

<400> 28
 Ala Val Tyr Thr Arg Ile Met Met Asn Gly Gly Arg Leu Lys Arg
 1 5 10 15

<210> 29
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> MOD_RES
 <222> (1)
 <223> ACETYLATION

<220>
 <223> modification of Pyrrhocoricin

<400> 29
 Lys Val Asp Lys Val
 1 5

<210> 30
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> modification of Pyrrhocoricin

TOE02T"40808650

<400> 30

Val Asp Lys Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro
1 5 10 15

Arg Pro Ile Tyr Asn Arg Asn
20

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